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BSM–008

BACHELOR OF BUSINESS ADMINISTRATION (SERVICES MANAGEMENT)

[(BBA(SM)]

Term-End Examination

June, 2025

BSM-008 : BASIC QUANTITATIVE TECHNIQUES

Time : 2 Hours *Maximum Marks : 50*

Note : *Attempt all questions.*

1. Answer all the questions. Each question carries 1 mark.

   (a) State whether the following statements are true/false : 1×5=5

      (i) Statistics is primarily concerned with counting and calculating.

(ii) Gender (Male/Female) is an example of quantitative data.

(iii) A bar chart is a suitable graphical representation for displaying the distribution of various classes of the college.

(iv) The mode of a dataset is always unique.

(v) The sum of pie chart is 360°.

(b) Fill in the blanks : 1×5=5

(i) The range is calculated by subtracting the ..... from the largest value in a dataset.

(ii) A histogram is a graphical representation suitable for displaying the ..... of a dataset.

(iii) The standard deviation of 12, 12, 12, 12, 12 is ..... .

(iv) The ..... is the most appropriate measure of central tendency for skewed datasets.

(v) The standard deviation is a measure of ..... that indicates how spread out the values in a dataset are.

2. Briefly explain any *five* of the following in about **100** words each : 2×5=10

(a) Regression

(b) Variance

(c) Normal Distribution

(d) Skewness

(e) Z-Score

(f) Random Sample

(g) Correlation

(h) Hypothesis

3. Answer any *four* of the following questions in about **250** words each. Each question carries 5 marks : 5×4=20

   (a) Differentiate between Qualitative and Quantitative Data.

   (b) Explain the concept of range in statistics.

   (c) Discuss the advantages and disadvantages of using a bar chart.

   (d) What is the purpose of calculating the coefficient of variation in data analysis ?

   (e) Describe the steps involved in constructing a frequency distribution.

   (f) Explain the difference between positive skewness and negative skewness in a distribution.

4. Answer any *one* of the following questions in about **500** words. Each question carries 10 marks : 1×10=10

   (a) Examine the implications and advantages of compound interest in financial scenarios, particularly in the context of a ₹ 60,000 deposit compounded annually at a 9% rate over 5 years.

   (b) Provide a comprehensive explanation of skewness, covering its significance in statistical analysis and how it measures the asymmetry of a distribution.

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